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Infosafe No.	SHW6M	Issue Date : March 2007	ISSUED by SHINAGAW
Due du et Marra	FIDECLAS		

Product Name : **FIRECLAY FG30**

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name FIRECLAY FG30

Product Use Refractory fireclay mortar for setting refractory bricks.

2. COMPOSITION/INFORMATION ON INGREDIENTS Ingredients CAS <u>Name</u> **Proportion** 1344-28-1 40-60 % Aluminum Oxide Silica (crystalline-fused) 60676-86-0 50-60 % **3. HAZARDS IDENTIFICATION** Route(s) of Entry Inhalation Signs and Symptoms Eye contact: Physical irritation, laceration Skin contact: Physical irritation of Exposure Ingestion: Temporary irritation to the gastrointsetinal tract. Inhalation: Decline in pulmonary function and abnormal chest x-rays. **Medical Conditions** Dust from this product may aggravate existing chronic lung conditions such as Generally Aggravated bronchitis, emphysema and asthma. by Exposure

4. FIRST AID MEASURES

Inhalation	Remove victim to fresh air. Seek medical advice if effects persist.		
Ingestion	Rinse mouth thoroughly with water immediately. Seek medical advice.		
Skin	Wash with plenty of soap and water. If irritation occurs seek medical advice.		
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.		
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.		
Advice to Doctor	Treat symptomatically.		

5. FIRE FIGHTING MEASURES

	This product is non flammable and non explosive.		
Extinguishing Media	This material is non-combustible, use extinguishing media appropriate to surrounding fire.		
Specific Hazards	Not applicable.		
Hazardous Combustion Products	Non combustible material.		
Decomposition Temp.	As manufactured, this product is an alumino-silicate material. In service, alumino-silicates may transform upon heating to mullite and crystalline silica (cristobalite or quartz).		

6. ACCIDENTAL RELEASE MEASURES

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Spills & Disposal	Sweep up, but avoid generating dust. Wear an appropriate respirator. Spills may be dampened down prior to clean up to avoid dust generation.				
Environmental Precautions	This product is not especially	harmful to the envi	ronment.		
7. HANDLING	AND STORAGE				
	In storage, keep free from rai:	n and water.			
Storage	Store in a cool,dry place.				
8. EXPOSURE	CONTROLS, PERSONAL PROT	ECTION			
Exposure Limits	Name	STEL	TWA		
•		<u>mg/m3</u> ppm	<u>mg/m3 ppm</u>	<u>Footnote</u>	
	Aluminum Oxide		15	Respirable dust	
Respiratory Protectio	m A half face (P1 or P2) respirative ventilated spaces, or where ever exposure standards. All repiration AS/NZS 1715 & AS/NZS 1716.	tor should be worn de idence suggests that tory devices should l	uring work in dust levels m be tested for	enclosed or poorly ay exceed the complience with	
Eye Protection	Safety glasses,goggles or faceshield as appropriate.				
Hand Protection	The wearing of gloves is recommended.				
Footwear	Safety boots with reinforced, protective toecaps.				
Body Protection	Overalls or similar protective apparel.				
Eng. Controls	Avoid generating and inhaling dusts. Maintain concentration below recommended exposure limit. Use with adequate ventilation. Consider mechanical ventilation.				
Hygiene Measures	Wash hands before eating, drinking or smoking. Launder contaminated clothing before re-use.				
9. PHYSICAL A	ND CHEMICAL PROPERTIES				
Appearance	Aggregate with fine powder mat:	rix.			
Decomposition Temperature	As manufactured, this product is an alumino-silicate material. In service, alumino-silicates may transform upon heating to mullite and crystalline silica (cristobalite or quartz).				
Melting Point	>1800				
Solubility in Water	Insoluble				
Specific Gravity	Not applicable				

Flammability Non combustible material. N/A

LEL

Flammable Limits

Flammable Limits N/A UEL

(H2O=1)

10. STABILITY AND REACTIVITY

Stability Stable Will not occur Hazardous Polymerization

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Hazardous Reaction	This product is not considered to be flammable but the action of heat may cause a variety of organic decomposition products to be formed, some of which may be hazardous.		
11. TOXICOLO	GICAL INFORMATION		
Toxicology	OTHER INFORMATION TOXICOLOGY		
Information	The most recent review of the scientific evidence on the hazard to human health of silica was undertaken by the International Agency for Research on Cancer (IARC) in 1996, to update its 1987 monograph, and published in June 1997: 'There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. There is inadequate evidence in humans for the carcinogenicity of amorphous silica. There is sufficient evidence in experimental animal studies for the carcinogenicity of quartz and cristobalite. There is inadequate evidence in experimental animal studies for the carcinogenicity of synthetic amorphous silica.' This product is a Alumino-Silicate material, in service this material may see tempuratures sufficiently high enough (>980 deg.C) to partially transform the		
Inhalation	Inhalation of dust may result in respiratory irritation.		
Ingestion	May cause gastric irritation.		
Skin	Repeated or prolonged skin contact may lead to irritation.		
Eye	May be an eye irritant.		
Chronic Effects	Prolonged or repeated inhalation of dusts above the exposure standard which may generated when installing this product may expose the worker to small amounts of respirable free crystalline silica. IARC has placed crystalline silica in catego 2A, (IARC believes that there is sufficient evidence of carcinogenicity in anima but evidence of the carcinogenicity to humans from this material is limited).		
Carcinogenicity	An IARC Working Group reported that there is limited evidence for the carcinogenicity of crystalline silica in humans (IARC S.7, 1987; IARC V.42, 1987). A number of studies have investigated the occurrence of lung cancer in humans diagnosed as having silicosis after occupational exposure to dust containing respirable crystalline silica. Of three case-control studies, two showed an association between silicosis and lung cancer. Seven cohort studies and one proportionate morality study all demonstrated that lung cancer occurs more frequently in silicotics than in the general population. This increase has been seen amoung miners, quarry workers, ceramic workers, granite workers, and stone workers. In some of these studies, the risk of lung cancer increased with duration of employment. Only rarely, however, was data		

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Other Information Normally this material (in the as supplied state) contains very low concentrations of cristobalite and it is not expected that under normal usage where the overall dust concentrations are kept below 10 mg/m3, that cristobalite levels will not exceed the expose standard of 0.1 mg/m3.

of the referent population assured (IARC V.42, 1987; IARC S.7, 1987).

obtained on smoking and on potential compounding exposures and the compatability

12. ECOLOGICAL INFORMATION

Adverse effects of this material on the enviroment are not anticipated.

Information on Ecological Effects

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Environ. Protection	This product is not considered to be harmful to the environment under normal conditions.		
13. DISPOSAL	CONSIDE	RATIONS	
Waste Disposal	If waste generated cannot be reused, dispose of in an authorised landfill site complying with all local, federal and state regulations.		
14. TRANSPOI	RT INFORM	MATION	
	No specia	al precautions required.	
U.N. Number	None Allocated		
Proper Shipping Name	None Allocated		
DG Class	None Allocated		
Hazchem Code	None Allocated		
Packing Group	None Allocated		
15. REGULAT	ORY INFO	RMATION	

16. OTHER INFORMATION

DEMOLITION:

Personal Protective Equipment should include dust mask (P1/P2), safety glasses, boots and leather gloves. If dust levels are excessive then mechanical ventilation should be used to reduce them. Note that this product contains small amounts of crystalline silica, which may change form during service at elevated temperatures. Removal of these materials during demolition can generate respirable dusts containing small amounts of crystalline forms of silica; repeated/prolonged inhalation of these dusts can cause pulmonary fibrosis. Material being demolished may have absorbed waste material from the metallurgical or heat containment process, and the nature and quantity of this should be considered when work practices are determined. Demolished material may usually be disposed of in an approved landfill, but consider any extraneous matter derived from the process and comply with all federal, state and local regulations.

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...End Of MSDS...